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```
void img_clear(Image *i, Color c) { int u, v, k; switch (img_type(i)) { case IMG_MONOCOL: k = rgb_to_y(c); break; case IMG_MAPPCOL: k = cm_closest(i->m,c); ...
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$u, u) = p(r \ 1 \ u) \ 1 \ 0$ and. Hilbert Space. $b(u, u) = a(u) > 0$
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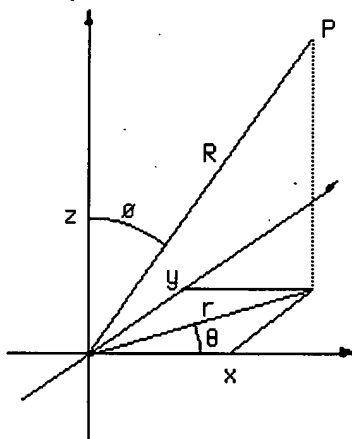
Coordinate System Transformation

Written by Paul Bourke

June 1996

There are three prevalent coordinate systems for describing geometry in 3 space, cartesian, cylindrical, and spherical (polar). They all provide a way of uniquely defining any point in 3D.

The following illustrates the three systems.



Equations for converting between cartesian and cylindrical coordinates

$$\begin{array}{lll}
 x = r \cos(\theta) & r = \sqrt{x^2 + y^2} & \sin(\theta) = y / \sqrt{x^2 + y^2} \\
 y = r \sin(\theta) & \theta = \arctan(y/x) & \cos(\theta) = x / \sqrt{x^2 + y^2} \\
 z = z & z = z &
 \end{array}$$

Equations for converting between cylindrical and spherical coordinates

$$\begin{array}{lll}
 r = R \sin(\theta) & R = \sqrt{r^2 + z^2} & \sin(\theta) = r / \sqrt{r^2 + z^2} \\
 z = R \cos(\theta) & \theta = \arctan(r/z) & \cos(\theta) = z / \sqrt{r^2 + z^2} \\
 \theta = \theta & \theta = \theta &
 \end{array}$$

Equations for converting between cartesian and spherical coordinates

$$\begin{aligned}x &= R \sin(\vartheta) \cos(\theta) & R &= \sqrt{x^2 + y^2 + z^2} \\y &= R \sin(\vartheta) \sin(\theta) & \theta &= \arctan(y/x) \\z &= R \cos(\vartheta) & \vartheta &= \arctan(\sqrt{x^2 + y^2} / z)\end{aligned}$$